EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION: I | SITE NUMBER (to be assigned by Hq): MA-01250

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition *(Section II)*. File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET *(or other identifier)*		
Holden Landfill Site	Wachusett River Street		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
Holden	MA	01520	Worcester

G. SITE OPERATOR INFORMATION

1. NAME		2. TELEPHONE NUMBER	
Town of Holden		(617) 829-6561	
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**
1196 Main Street	Holden	MA	01520

H. REALTY OWNER INFORMATION *(if different from operator of site)*

1. NAME		2. TELEPHONE NUMBER	
3. CITY		**4. STATE**	**5. ZIP CODE**

I. SITE DESCRIPTION

Sanitary Landfill

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☒ 4. MUNICIPAL ☐ 5. PRIVATE

II. TENTATIVE DISPOSITION *(complete this section last)*

A. ESTIMATE DATE OF TENTATIVE DISPOSITION *(mo., day, & yr.)*	B. APPARENT SERIOUSNESS OF PROBLEM
	☒ 1. HIGH ☐ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*
Daniel P. Waltz Ecology and Environment, Inc.	(617) 935-0228	5/6/82

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
David W. Tordoff		
3. ORGANIZATION		**4. TELEPHONE NO. *(area code & no.)***
Environmental Protection Agency, Boston Regional Office		(617) 223-5775

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Christopher Hagger	Ecology & Environment, Inc.	(617) 935-0228

C. SITE REPRESENTATIVES INTERVIEWED *(corporate officials, workers, residents)*

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Alan Bary	Holden Town Engineer (617) 829-6561	1196 Main Street Holden, MA 01520

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III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Electronics Control Corporation	(617) 829-5301	156 Princeton Street	Solvents
Reed Rolled Thread & Die Company	(617) 829-4491	Industrial Park	Metal Sludge
Reed Plastics Corporation	(617) 829-6301	Holden Industrial Park	Solvents

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
5/2/80		[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe)

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER	x	EPA Laboratory	7/23/81
b. SURFACE WATER	x	EPA Laboratory	7/23/82
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify) leachate seeps	x	EPA Laboratory	7/23/81

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
Resistivity Survey	Selected locations on site	pending
Topographic Survey	Entire site	completed

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V. WASTE RELATED INFORMATION (continued)

2. Estimate the amount *(specify unit of measure)* of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT: Unknown	AMOUNT:	AMOUNT: Unknown	AMOUNT:	AMOUNT: Unknown	AMOUNT:
UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:	UNIT OF MEASURE:
[ ] (1) PAINT, PIGMENTS	[ ] (1) OILY WASTES	[X] (1) HALOGENATED SOLVENTS	[ ] (1) ACIDS	[ ] (1) FLYASH	[X] (1) LABORATORY, PHARMACEUT.
[ ] (2) METALS SLUDGES	[ ] (2) OTHER(specify):	[X] (2) NON-HALOGNTD. SOLVENTS	[ ] (2) PICKLING LIQUORS	[ ] (2) ASBESTOS	[ ] (2) HOSPITAL
[ ] (3) POTW		[ ] (3) OTHER(specify):	[ ] (3) CAUSTICS	[ ] (3) MILLING/MINE TAILINGS	[ ] (3) RADIOACTIVE
[ ] (4) ALUMINUM SLUDGE			[ ] (4) PESTICIDES	[ ] (4) FERROUS SMELTING WASTES	[ ] (4) MUNICIPAL
[X] (5) OTHER(specify): Unknown			[ ] (5) DYES/INKS	[ ] (5) NON-FERROUS SMLTG. WASTES	[ ] (5) OTHER(specify):
			[ ] (6) CYANIDE	[X] (6) OTHER(specify): Unknown	
			[ ] (7) PHENOLS		
			[ ] (8) HALOGENS		
			[ ] (9) PCB		
			[ ] (10) METALS		
			[ ] (11) OTHER(specify):		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE *(place in descending order of hazard)*

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
benzene		x		x				71-43-2		
vinyl chloride		x		x						
1,1-dichloroethane		x			x			75-35-4		
1,2-trans-dichloroethylene		x			x					
1,1,1-trichloroethane		x			x			25323-89-1		
toluene		x			x			108-88-3		
ethyl benzene		x			x			100-41-4		
xylene		x			x			1330-20-7		

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

[X] A. HUMAN HEALTH HAZARDS

Potential exposure at leachate seeps located along the northern section of the landfill property.

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VIII. HAZARD DESCRIPTION *(continued)*

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☒ D. CONTAMINATION OF WATER SUPPLY

Leachate seeps drain into the Quinapoxet River which is a tributary to the Wachusett Reservoir.

☐ E. CONTAMINATION OF FOOD CHAIN

☒ F. CONTAMINATION OF GROUND WATER

Samples from groundwater monitoring wells show the presence of volatile organic contaminants.

☒ G. CONTAMINATION OF SURFACE WATER

Leachate seeps along the northern section of the site and drain into the Quinipoxet River.

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. HAZARD DESCRIPTION *(continued)*

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☒ K. NOTICEABLE ODORS

Pronounced odors were detected in the vicinity of the leachate seeps north of the landfill site.

☒ L. CONTAMINATION OF SOIL

Discoloration of the soil was noticed near the leachate seeps north of the landfill site.

☐ M. PROPERTY DAMAGE

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VIII. HAZARD DESCRIPTION *(continued)*

☐ N. FIRE OR EXPLOSION

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☒ R. INADEQUATE SECURITY

The main entrance to the landfill is fenced with a locked gate but access may be gained along the perimeter of the site in other locations where the fence is absent.

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

☐ U. OTHER *(specify)*:

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE *(specify units)*
1. IN RESIDENTIAL AREAS	None			
2. IN COMMERCIAL OR INDUSTRIAL AREAS				
3. IN PUBLICLY TRAVELLED AREAS				
4. PUBLIC USE AREAS *(parks, schools, etc.)*				

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER *(specify unit)*	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
10-30 feet	north-northeast	Unknown
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)*	**F. DIRECTION TO DRINKING WATER SUPPLY**
Unknown	6,900 feet	East-northeast

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY <15 CONNECTIONS* ☒ 2. COMMUNITY *(specify town)*: Metropolitan District Commission Reservoir
>15 CONNECTIONS

☒ 3. SURFACE WATER ☐ 4. WELL

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X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
		Unknown		

I. RECEIVING WATER

1. NAME: Quinapoxet River

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Quinapoxet River is a tributary to the Wachusett Reservoir which is part of the Metropolitan District Commission System which supplies drinking water to the Metropolitan Boston Area.

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
x	1. SAND	x	Metamorphic units including mica, schist, chlorite schist, phyllite and micaceous quartzite	x	Glacial Till
x	2. CLAY			x	Silt
x	3. GRAVEL				

XIII. SOIL PERMEABILITY

☒ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)
☐ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: relatively flat

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: north-northeast, soil is relatively bare

J. OTHER GEOLOGICAL DATA

Surficial deposits on site are composed of stratified and sorted glaciofluvial deposits. The thickness of the overburden varies from 40 to 90 feet.

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XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
State	DEQE						X

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

DEQE notified the Town of Holden that it is in violation of Regulations for the Disposal of Solid Waste by Sanitary Landfill and the Drinking Water Regulations as a result of leachate contamination generated from the site (5/1/81).

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS

Site Name: Holden Landfill Site, Holden, MA

Notes: _____

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Ground and Surface Water and Air		
1. Waste physical state	no	
2. Persistence	yes	
3. Toxicity	yes	
4. Quantity	no	
Ground Water		
1. Monitoring data OR	yes	
1a. Depth of aquifer	yes	
1b. Net precipitation	yes	
1c. Permeability	yes	
2. Ground water use	yes	
3. Distance to nearest down-gradient well	yes	
4. Population served by wells within 3 miles	yes	
Surface Water		
1. Monitoring data OR		
1a. Slope and terrain	yes	
1b. Rainfall intensity	yes	
1c. Distance to surface water	yes	
1d. Flood potential	yes	
2. Surface water use	yes	
3. Critical habitats	yes	
4. Population served	yes	
Air		
1. Monitoring data	no	
2. Waste reactivity	yes	
3. Incompatibility	yes	
4. Toxicity	yes	
5. Distance to nearest population	yes	
6. Population within 1 mile	yes	
7. Critical environments	yes	
8. Land use	yes	

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Fire and Explosion		
1. Ignition source	yes	
2. Containment	yes	
3. Ignitability	yes	
4. Reactivity	yes	
5. Incompatibility	yes	
6. Distance to population	yes	
7. Distance to off-site building	yes	
8. Distance to sensitive ecosystems	yes	
9. Land use	yes	
10. Population within 2 miles	yes	
11. Buildings within 2 miles	yes	
Direct Contact		
1. Evidence OR		
1a. Accessibility	yes	
1b. Containment	yes	
2. Toxicity	yes	
3. Population within 1 mile	yes	
4. Critical habitat	yes	
5. Land Use	yes	